State of New Jersey
Department of Community Affairs Division of
Codes and Standards
Construction Code Element
CN 816
Trenton, New Jersey 08625-0816

ChristineTodd Whitman
Governor

Harriet Derman
Commissioner

BULLETIN NO.
94-7

Date: **March, 1995**

Subject: **Plans for Elevator Devices**

Reference: **N.J.A.C. 5:23-2.15(e)**
ASME A17.1 Safety Code for Elevators and Escalators

The Department has received numerous inquiries concerning the type of technical information required on elevator plans which are to be submitted with a construction permit application. ASME A17.1, referenced in the adopted elevator safety subcode, refers to these elevator plans as elevator layout drawings. These drawings must be signed and sealed by the architect or engineer for the project, as must all other drawings which are required to be submitted with a construction permit application.

Other types of drawings that may be involved in the installation of elevator components are shop-drawings. These drawings are usually prepared by the elevator company for the use of elevator contractors and construction workers. They are not required to be submitted to obtain a construction permit and, thus, are not required to be signed and sealed by the project architect or engineer.

The following information is required on elevator plans and specifications for passenger and freight elevators and dumbwaiters. It should be noted that these requirements are not all-inclusive and that not every project requires all items listed below.

I. List of the specific codes and standards with which the device to be installed will be in compliance.

II. SPECIFICATIONS AND DATA TABLE:
Elevator type, capacity and speed, class of loading; total travel, number of stops and openings; type of operation; emergency signaling devices; type of control; type of driving machine, type of safeties and number and size of hoisting and governor ropes and compensating cables/ropes or chains; diameter of sheaves; working pressure; buffer types and strokes.

III. REACTIONS, LOADS AND RAIL DATA:
Reactions, loads, and up-pulls transmitted to the buliding structrure; type and size of guide rails; maximum forces on the guide rails; rail brackets' spacings; size and weight per foot of rail reinforcements where provided.

IV. SIZE, LOCATIONS, CLEARANCES, AND OTHER DATA:
A. Identification number of each car if more than one, and its related major equipment in the machine rooms; clear sizes and heights of hoistways, pits, machine rooms, machinery spaces and their entrances: location of hoistways and machine rooms with respect to the building's structural members.

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B. Location of **elevator equipment in hoistway and pit**; car and counterweight horizontal, bottom and top clearances and runbys; height of buffers, buffer blockings, and supports; location of pit ladders and stop switches.

C. Location of **elevator equipment in machine rooms and machinery spaces**; weight of major elevator equipment; size and type of equipment supporting beams, channels, etc.; clearances around control panels and disconnecting means.

D. **Elevator entrance** type, size and fire-rating; distances between landing side of car platform and hoistway enclosure, between car and landing sills, between face of the door or gate and the hoistway door; dimension of sill projections and provisions of fascias.

E. **Elevator cab's** clear platform size and cab height; cab and car weights, size and location of car's top and side emergency exists; enclosure materials; floor covering when other than standard type; cab venting.

F. Location of **operating devices and signal fixtures** such as car stations, corridor push button stations, hall lanterns, in-car lanterns, and position indicators.